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TI Self-polishing polyethylene wax dispersions
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AB Polyethylene (I) 9002-88-4 of mol. wt. 500-6000 was oxidized and then partially saponified with NaOH and CaOH to give a product that was emulsified to give the title dispersions. Thus, 1 paraffin of mol. wt. 1200 was oxidized with air at 140.deg. in the presence of Zn stearate to an acid no. of 38; the oxidn. product was neutralized at 130.deg. with water-suspended CaOH to an acid no. of 28 and to an acid no. of 18 by addn. of 30% aq. NaOH. The neutralization product was melted with poly(ethylene oxide) and the melt at 105.deg. mixed in water at 98.deg. to give a emulsion of Ford Cup (diam. of nozzle 8 min) viscosity 20 sec.